

L12 ANSWER 4 OF 7 MEDLINE
ACCESSION NUMBER: 94295910 MEDLINE
DOCUMENT NUMBER: 94295910 PubMed ID: 8024121
TITLE: Stabilization of the peptide conformation on the micellar surface.
AUTHOR: Shapiro YuE; Gorbatyuk VYa; Mazurov A A; Andronati S A
CORPORATE SOURCE: A. V. Bogatsky Physico-Chemical Institute, Ukrainian Academy of Sciences, Odessa.
SOURCE: ANALYST, (1994 Apr) 119 (4) 647-52.
Journal code: 4OS; 0372652. ISSN: 0003-2654.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199408
ENTRY DATE: Entered STN: 19940815
Last Updated on STN: 19960129
Entered Medline: 19940802

AB The conformational mobility of peptide molecules plays a significant role in peptide-receptor interactions and quantitative structure-activity relationships. As a receptor mimetic system, bis(2-ethylhexyl) sodium succinate (AOT) reversed **micelles** containing an aqueous solution of one of the melanotrophine inhibiting factor analogues prolyltyrosyl-glycinamide hydrochloride in the inner cavity have been used. **Two-dimensional nuclear magnetic resonance** spectroscopy (NOESY) and ¹³C spin-lattice relaxation time measurements have been used to establish that the peptide molecule assumes the biologically active beta II turn conformation when it is adsorbed at the surfactant-water border. This conformation is stabilized by intramolecular H-bonding between the proline carbonyl oxygen atom and amide protons. Moreover, it has been shown that the phenyl ring of tyrosine was inserted into the AOT intermolecular cavity, which is located between the polar AOT groups and the branches of iso-octane fragments. By and large, the phenyl ring acts as a hydrophobic anchor. Reversed **micelles** can be regarded as providing a realistic model of the receptor.

P70270

ID	P
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XX

AC

XX
25DT
yyAA
DEDE
XX

KW

XX

OS

XX

PN

XX
DD

PD
YY

AA
PF

XX

PR

XX

PA

XX
DT

91
 92

DE

DE

X2

PT

PT

xx
20

PS
YI

AA
CC

CO

cc

C

X2

S

Query Match 97.1%; Score 170; DB 8;
Eukaryotic translation 100.0%; Prod. No. 2 1e-19.

Best Local Similarity 100.0%; Pred. NO: 2.1e 15;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 32; Conservative 0; Hismatov 0; ...

QY 1 NPPFVGEIIRRWIIIESENRIVGHISFISIED
| | | | | | | | | | | | | | | | | | | | | |

pb 121 nppipvygeiykrwllqlnkivrmysptsild 152

L16 ANSWER 9 OF 10 MEDLINE

ACCESSION NUMBER: 78131443 MEDLINE

DOCUMENT NUMBER: 78131443 PubMed ID: 344799

TITLE: Enhancement of carrier-specific helper T cell function by the synthetic adjuvant, N-acetyl muramyl-L-alanyl-D-isoglutamine (MDP).

AUTHOR: Sugimoto M; Germain R N; Chedid L; Benacerraf B

SOURCE: JOURNAL OF IMMUNOLOGY, (1978 Mar) 120 (3) 980-2.

Journal code: IFB; 2985117R. ISSN: 0022-1767.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 197805

ENTRY DATE: Entered STN: 19900314

Last Updated on STN: 19900314

Entered Medline: 19780517

AB The adjuvant effect of a synthetic peptidoglycan, muramyl dipeptide (N-acetyl muramyl-L-alanyl-D-isoglutamine, MDP), was studied by using the anti-Tnp PFC and **hemagglutinin** responses of BALB/c mice to hapten-carrier conjugates. Administration of Tnp-OVA and MDP in saline to mice, followed 2 weeks later by a boost of Tnp-OVA in saline, led to significantly higher IgM and IgG anti-Tnp PFC and total anti-Tnp-**hemagglutinin** responses than those obtained in mice not treated with MDP in the initial immunization. A similar adjuvant effect by MDP on anti-hapten PFC responses was seen if mice were primed with **KLH** together with MDP and challenged with Tnp-**KLH** 2 weeks later. This apparent effect on carrier priming for helper function was confirmed and quantitated by double adoptive transfer experiments with graded numbers of spleen cells from **KLH** +/- MDP-primed mice and a fixed number of hapten-primed spleen cells from syngeneic Tnp-OVA immunized animals. These data suggest that at least one mode of action of the synthetic adjuvant MDP is via the enhanced stimulation of the helper T cell function.

FILE 'MEDLINE' ENTERED AT 11:51:50 ON 26 JUN 2001

L1	36053 S TWO DIMENTIONAL NUCLEAR MAGNETIC RESONANCE OR NMR
L2	6595 S MICELLE?
L3	606 S L1 AND L2
L4	288047 S REVIEW
L5	4 S L3 AND L4
L6	291081 S PEPTIDE?
L7	247 S L6 AND L3
L8	100156 S HIV
L9	8 S L7 AND L8
L10	0 S TWO DIMENTIONAL NUCLEAR MAGNETIC RESONANCE
L11	312 S TWO DIMENSIONAL NUCLEAR MAGNETIC RESONANCE
L12	7 S L11 AND L2

FILE 'MEDLINE' ENTERED AT 09:05:25 ON 26 JUN 2001

L1	6595 S MICELLE?
L2	19935 S ACETIC ACID
L3	14 S L1 AND L2
L4	14 DUP REM L3 (0 DUPLICATES REMOVED)
L5	36073 S NMR OR NUCLEAR MAGNETIC IMAGING
L6	14 S L4
L7	2 S L4 AND L5
L8	255 S KLH AND HA
L9	288047 S REVIEW
L10	4 S L8 AND L9
L11	2788 S KEYHOLE LIMPET OR KLH
L12	1169419 S HEMAGGLUTININ OR HA
L13	489 S L11 AND L12
L14	7 S L13 AND L9
L15	10593 S HEMAGGLUTININ
L16	10 S L15 AND L11